

SECTION V.—BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Junior Professor, in charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies.

Ansel, E. A.

Beiträge zur Dynamik und Thermodynamik der Atmosphäre. Göttingen. [1913] 2 p. 1, 67 p. 4 pl. 8°. (Inaug. diss.—Göttingen.)

Bosnia-Herzegovina. Landesregierung.

Ergebnisse der meteorologischen Beobachtungen an den Landestationen, 1912. Sarajevo. 1913. xvi, 193 p. f°..

Brackett, F[rank] P[arkhurst].

The Smithsonian expedition to California for measurement of nocturnal radiation. (*In* Publication of the Astronomical society of Pomona college. Claremont, Cal. Oct. 1913. v. 3, p. 10-19. 4°.) [Joint investigations of Smithsonian institution and U. S. Weather bureau, including balloon observations.]

Cornish, Vaughan.

Waves of sand and snow, and the eddies which make them. London, etc. [1914.] 383 p. plates. 8°.

Chile. Instituto central meteorológico y geofísico.

Observaciones meteor. en la Isla de Pascua, Mayo 1911-Abril 1912, con estudios de F. Montessus de Ballore, F. Fuentes, W. Knoche. Meteorologische Beobachtungen auf der Osterinsel. [Spanish and German text.] Santiago de Chile. 1913. viii, 180 p. plates. f°.

Colombo observatory.

Report on the Colombo observatory, 1912, July to December, and the meteorology of Ceylon, 1912. [Colombo, 1913.] 11, G 47 p. plates. f°.

Dickinson, H[obert] C., & Mueller, E[ugene] F.

New calorimetric resistance thermometers. Washington. 1913. 483-492 p. front. 8°. (Reprint no. 200. From Bulletin of the Bur. of standards, vol. 9.)

France. Bureau central météorologique.

Annales, année 1911. II. Observations. Paris. 1913. v. p. f°.

Galli, Ignazio.

Effetti dei fulmini globulari sugli alberi e sulle erbe. Memoria quarta. Roma. 1913. 70 p. 4°. (*Estratto dalle Memorie della Pontificia accademia Romana dei Nuovi Lincei*, vol. 31.)

Garcia, Fabian, & Rigney, J. W.

Hardiness of fruit buds and flowers to frost. Las Cruces. 1914. 52 p. 8°. (New Mexico Agric. exper. station. Bulletin no. 89.)

Geography supply bureau.

Descriptive catalogue of lantern slides for meteorology and climatology. Also Dayton, O., flood: Lecture set of slides. Ithaca, N. Y. 24 p. 8°.

Ghent. Université.

Annuaire météorologique. Année météorologique, Mars 1913—Février 1914. Roulers. 1914. 94 p. 6 pl. 12°.

Greenwich. Royal observatory.

Results of the magnetical and meteorological observations, 1912. London. 1914. E xxxvi, E 74 p. f°.

Gruner, P[aul].

Dämmerungserscheinungen und Alpenglühnen, beobachtet in Bern im Jahre 1913. 39 p. 8°. (S.-A. Mitteilungen der Naturforschenden Gesellschaft in Bern aus dem Jahre 1913.)

Guillaume, Ch.-Ed.

Le premier quart de siècle de la Tour Eiffel. Allocution prononcée à la fête du soleil, le 22 Juin 1912. Paris. 1913. 38 p. plate. 8°. [Describes the work of the meteorological observatory on the tower.]

Hankin, E[rnest] H[anbury].

Animal flight, a record of observation. London. [1913.] viii, 405 p. 8°. [Discusses meteorological conditions affecting bird flight, etc.]

Hellmann, G[ustav].

Regenkarten der Provinz Westfalen, sowie der Fürstentümer Waldeck, Schaumburg-Lippe, Lippe und des Kreises Grafschaft Schaumburg. 2. verm. Auflage. Berlin. 1914. 24 p. 2 pl. 4°. (Veröff. des K. preuss. meteorologischen Inst. Nr. 274.) Über die Bewegung der Luft in den untersten Schichten der Atmosphäre. I. Mitteilung. 415-437 p. 4°. (S.-A. Sitzber. der K. preuss. Akad. der Wissenschaften, 1914.)

Ille-&-Vilaine. Commission météorologique.

Bulletin annuel. Année 1912. Rennes. 1913. 26 p. 17 leaves. 6 pl. 4°.

Japan. Central meteorological observatory.

Annual report, 1912: Meteorological observations in Japan for the year 1912. Tokio. 1914. 1 p. l., 411 p. map. 4°.

Korselt, Ernst.

Über die täglichen regelmässigen Schwankungen des Barometers und ihren Zusammenhang mit dem Kreislaufe der Luft um den Erdball. Zittau. 1914. 16 p. 4°. (Beilage zum Jahresbericht 1914 des Kgl. Realgymnasiums Zittau. 1914, Progr.-Nr. 813.)

Leuschner, Armin O.

Twenty-five-year synopsis of the meteorological observations made at Berkeley from July 1, 1887, to June 30, 1912. Berkeley. 1914. 241-246 p. 4°. (University of California publications in geography, vol. 1, no. 5.)

Mauritius. Royal Alfred observatory.

Results of the magnetical and meteorological observations, 1909. Mauritius. 1913. v. p. 9 pl. 4°.

Münz, [Charles] A[chille], & Lainé, E[dmond].

Eaux météoriques, sol et atmosphère. Paris. 1913. 2 p. l., 47 p. 4°. (Deuxième expédition antarctique française, 1908-1910. Sciences physiques: Documents scientifiques)

Quervain, Alfred de.

Quer durchs Grönlandeis. Die schweizerische Grönland-Expedition 1912/13. München. 1914. viii, 196 p. 15 pl. map. 8°. [Meteorological observations, chapter 12]

Rotmistrov, V. G.

The nature of drought according to the evidence of the Odessa experiment field. Translation from Russian. Odessa. 1913. 3 p. l., 48 p. plates. 8°. [M. of L. and A. Department of agriculture]

Rouch, J.

Électricité atmosphérique. Paris. 1913. 2 p. l., 39 p. 7 pl. 4°. (Deuxième expédition antarctique française, 1908-1910. Sciences physiques: Documents scientifiques)

Océanographie physique. Paris. 1913. 2 p. l., 46 p. 4°. (Deuxième expédition antarctique française, 1908-1910. Sciences physiques: Documents scientifiques)

Rykačev, M[ikhail] A[lexandrovich].

Rapport préliminaire de la Commission internationale polaire d'aérostation scientifique réunie à Copenhague le 28 février-1 mars 1914. St.-Pétersbourg, 1914. 369-376 p. map. 4°. (Reprint: Bulletin de l'Académie imp. des sci. de St.-Pétersbourg, 1914.)

Schmauss, August.

Münchener aerologische Studien No. 6: H_o und T_o im Auf- und Abstiegsdiagramme. München. 1914. E6 p. f°. (S.-A. Beob. der meteor. Station im Königreich Bayern, Bd. 36, Jahrg. 1914) Die Münchener Registrierballonfahrten im Jahre 1913. München. 1914. K 53 p. f°. (S.-A. Beob. der meteor. Stationen im Königreich Bayern, Bd. 35, Jahrg. 1913)

Smith, Albert.

Wind loads on buildings. (*In* Journal of the Western society of engineers. Chicago. April, 1914. v. 19, p. 369-392. 8°)

Spain. Observatorio central meteorológico.

Informaciones meteorológicas. [Radiogramas, etc.] [Madrid. 1914] 15, 4 p. plate. 8°.

Spang, Henry W.

Electrical and lightning engineering. A practical treatise explaining the electric destruction of underground water and gas pipes, electric wires, etc. Also explaining the principal causes of electric fires and the true state of the lightning science. New York. 1913. 77 p. 8°.

- Spartel (Cape). Commercial signal station.** Annual report of the Secretary of Lloyd's . . . [1913]. [London. 1914.] 7 p. 4°. [Meteorology, p. 7]
- Störmer, Carl.** Résultats des calculs numériques des trajectoires des corpuscules électriques dans le champ d'un aimant élémentaire. II. Faisceaux de trajectoires passant par un point; trajectoires spirales aux environs des trajectoires par l'origine. Kristiania. 1914. 2 p. 1., 58 p. 8 pl. 4°. (Videnskapsselskapets skrifter. I. Mat.-naturv. Kl. 1913, no. 10)
- Suzuki, Seitarō, & Somé, Také.** A wind-cave at Watarasé, Japan. (*In* Science reports of the Tōhoku imp. univ. Sendai, Japan. April, 1914. 1st ser., v. 3, no. 3, p. 101-111 p., 3 pl. 4°)
- Switzerland. Meteorologische Zentral-Anstalt.** Annalen, 1912. 49. Jahrgang. Zürich. n. d. v. p. plates. f°.
- Tananarivo. Observatoire de Madagascar.** Observations météorologiques, 24^e volume, 1912. Tananarive. 1913. vi, 272 p. 8°.
- Tsukubasan. [Observatorium].** Ergebnisse der meteorologischen Beobachtungen im Jahre 1911, herausgegeben von dem Meteorologischen Zentral-Observatorium. Tokio. 1914. 2 p. 1., 129 p. f°.
- Venezuela. Dirección general de estadística.** Anuario estadístico. (Year book of Venezuela.) 1910. Containing documents for 1911 and 1912. [Text in Spanish, French, and English] Caracas. 1913. xxi, 504 p. plates. 4°. [Climatology, 1910, p. 2-5; 1905-1910, p. 387-394]
- Wright, M. E. S.** A medley of weather lore. Bournemouth. 1913. 144 p. 16°.
- Zi-ka-wei, China. Observatoire.** Observations magnétiques faites à l'Observatoire de Lu-kia-pang. Tome II, année 1909. Zi-ka-wei-Chang-hai. 1914. 2 p. 1., 90 p. plates. f°.
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- RECENT PAPERS BEARING ON METEOROLOGY.**
- C. FITZHUGH TALMAN, Junior Professor, in charge of Library.
- The subjoined titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.
- Astrophysical journal.** Chicago. v. 39. May, 1914.
- Ångström, A. K., & Kennard, E. H. Some pyrheliometric observations on Mount Whitney. p. 350-360.
- Engineering news.** New York. v. 71. June 18, 1914.
- Branch, L. V. Records of heavy rainfall and run-off in Porto Rico. p. 1358-1359.
- Franklin institute. Journal.** Philadelphia. v. 177. June, 1914.
- Abbot, C[harles] G[reeley]. The radiation of the sun. p. 641-664.
- Indian meteorological department. Memoirs.** Calcutta. v. 21. pt. 8. 1914.
- Walker, Gilbert T. A further study of relationships with Indian monsoon rainfall. p. 1-12.
- Nature.** London. v. 93. May 29, 1914.
- Dines, W[illiam] H[enry]. Temperature-difference between the up and down traces of sounding-balloon diagrams. p. 320-321.
- [Cave, Charles J. P.] Upper air research. p. 334-338. [Extr. Q. J. Roy. Met. Soc.]
- Royal meteorological society. Quarterly journal.** London. v. 40. April, 1914.
- Cave, Charles J. P. Upper air research. p. 97-109.
- Shaw, W[illiam] N[apier]. The interpretation of the results of soundings with pilot balloons. p. 111-122.
- Dobson, G. M. B. Pilot balloon ascents at the central flying school, Upavon, during the year 1913. p. 123-135.
- Mossmann, R[obert] C. Meteorology of the Weddell quadrant during 1912. p. 137-153.
- Bjerknes, Vilhelm. Terminology in dynamic meteorology. p. 160-162.
- Whipple, F. J. W. Some units for dynamical meteorology. p. 162-163.
- Dr. J. H. Tripe. p. 169. [Obituary.]
- M. W. Zambra. p. 169. [Obituary.]
- Royal Society. Proceedings. London. ser. A. v. 90. 1914.**
- Pring, J. N. The occurrence of ozone in the upper atmosphere. p. 204-219. (A. 617.)
- Rudge, W. A. Douglas. On the electrification produced during the raising of a cloud of dust. p. 256-272. (A. 618.) [Author suggests explanation of electrical phenomena of dust storms and volcanic eruptions. p. 260.]
- Larmor, Joseph, & Larmor, J. S. B. On protection from lightning and the range of protection afforded by lightning rods. p. 312-318. (A. 618.)
- Royal society of South Africa. Transactions.** Cape Town. v. 4. pt. 1. 1914.
- Rudge, W. A. Douglas. On the daily range of the atmospheric potential gradient at Bloemfontein, and the influence of dust storms. p. 75-87.
- Scottish geographical magazine.** Edinburgh. v. 30. June, 1914.
- Penck, Albrecht. The shifting of the climatic belt. p. 281-293.
- Terrestrial magnetism and atmospheric electricity.** Baltimore. v. 19. June, 1914.
- Swann, W. F. G. The theory of electrical dispersion into the free atmosphere, with a discussion of the theory of the Gerdien conductivity apparatus, and of the theory of a collection of radioactive deposit by a charged conductor. p. 81-92.
- Wigand, Albert. Measurements of the electrical conductivity in the free atmosphere up to 9,000 meters in height. p. 93-101.
- U. S. Bureau of Standards. Bulletin.** Washington. v. 10. 1914.
- Waidner, C. W., & others. Observations on ocean temperatures in the vicinity of icebergs and in other parts of the ocean. p. 267-278. (Feb. 20.)
- Stillman, M. H. Note on the setting of a mercury surface to a required height. p. 371-374. (Apr. 15.)
- Yearbook of wireless telegraphy and telephony.** London. 1914.
- Erskine-Murray, J. The function of the atmosphere in transmission. p. 504-513.
- Lempfert, R. G. K. The application of wireless telegraphy to meteorology. p. 539-549.
- International time and weather signals. p. 557-569.
- Eccles, W. Radio-telegraphic investigations. Work of the British Association committee. p. 570-587. [Describes investigations of "strays." See above, p. 215.]
- Académie des sciences. Comptes rendus.** Paris. t. 158. 1914.
- Esclangon, Ernest. Sur un enregistreur de l'intensité des chutes de pluie. p. 1467-1470. (18 mai.)
- Guilbert, Gabriel. Sur la prévision du temps. p. 1470-1472. (18 mai.)
- Baldit, Albert. Sur un éclair en boule. p. 1542-1543. (25 mai.)
- Boutaric, A. Influence de la polarisation de la lumière diffusée par le ciel sur les valeurs obtenues pour la constante solaire. p. 1600-1602. (2 juin.)
- Annales de géographie.** Paris. 23 année. 15 mai 1914.
- Anfossi, Giovanni. La pluie en Piémont et dans les Alpes occidentales. p. 271-275.
- Nature.** Paris. 42 année. 6 juin 1914.
- Dubreton, J. L'électricité atmosphérique et les paratonnerres. p. 20-21.
- Société météorologique de France. Annuaire.** Paris. 62 année. avril 1914.
- Maillet, Edmond. Sur les conditions de la prise par les glaces ed la Seine à Paris. p. 97-98.
- Annalen der Hydrographie und maritimen Meteorologie.** Berlin. 42. Jahrgang. Heft 6. 1914.
- Köppen, Wladimir. Über Böen, insbesondere die Böe vom 9. September 1913. p. 303-320.
- Himmel und Erde. Berlin. Jahrgang 26. Mai 1914.
- Burk, Karl. Das Eis der Pole. p. 337-348.
- Meteorologische Zeitschrift.** Braunschweig. Band 31. Mai 1914.
- Wallén, Axel. Temperatur, Niederschlags- und Wasserstandsschwankungen in Nordeuropa. p. 209-220.
- Hesselberg, Th. Die Reibung in der Atmosphäre. p. 220-232.
- Heim, Fritz. Diamantsaub und Schneekristalle in der Antarktis (Wedellsee). p. 232-235.
- Kesselitz, Vilh. v. Über die Windverhältnisse in der Adria. p. 248-251.
- Naturwissenschaften.** Berlin. 2. Jahrgang. 22. Mai 1914.
- Kähler, Karl. Die durchdringende Strahlung der Atmosphäre. p. 501-505.
- Wiener Luftschiff-Zeitung.** Wien. 13. Jahrgang. 15. Mai 1914.
- Wilfred de Fonvielle. p. 108-111. [With two portraits.]
- Zeitschrift für Balneologie.** Berlin. 6. Jahrgang. 15. April 1914.
- Zur Errichtung des physikalisch-meteorologischen Observatoriums in Oberhof. p. 51.
- Hemelen Damprin.** Den Haag. 12. Jaargang. Mei 1914.
- Canniegieter, H. G. Problemen der aerologie. p. 1-10.
- Società degli spettroscopisti italiani. Memorie.** Catania. ser. 2. Aprile 1914.
- Platania, Giovanni. Il pulviscolo vulcanico dell' alta atmosfera e la radiazione solare. p. 62-72.